

STATE OF
COLORADO

Eschberger - DNR, Amy <amy.eschberger@state.co.us>

July 2021 Schwartzwalder Surface Water Report

Evan Valencia <evalencia@ensero.com>

Mon, Aug 23, 2021 at 11:14 AM

To: "daniel.arnold@denverwater.org" <daniel.arnold@denverwater.org>, "Eschberger - DNR, Amy" <amy.eschberger@state.co.us>, Evelyn Rhodes <erhodes@arvada.org>, "eric.mink@state.co.us" <eric.mink@state.co.us>, "bwyant@arvada.org" <bwyant@arvada.org>
Cc: Jim Harrington <jimharrington@ensero.com>, Elizabeth Busby <ebusby@ensero.com>, Billy Ray <bray@ensero.com>

Ms. Eschberger, Mr. Mink, Mr. Arnold, Mr. Wyant, and Ms. Rhodes,

Please find attached a transmittal letter, report, and electronic deliverable (EDD) for surface water data collected in July 2021 from the Schwartzwalder Mine in Golden, Colorado.

Best,

Evan Valencia, EIT

Environmental Engineer I



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August 23, 2021

Colorado Department of Public Health and Environment
Water Quality Control Division / WQCD-B2-CAS
Compliance Assurance Section
Attention: Eric Mink
4300 Cherry Creek Drive South
Denver, CO 80246-1530

Subject: July 2021 SW-AWD and SW-BPL Surface Monitoring Data for Sampling Stations,
Schwartzwalder Mine, Paragraph 26, WQCD Order Number: IO 100601-1, June 1, 2010,
Schwartzwalder Mine, Golden, Colorado

Dear Mr. Mink:

Pursuant to Paragraph 26 of the above referenced Order, please find enclosed data reports from contract laboratories as received by Ensero Solutions, Inc working on behalf of Colorado Legacy Land. This data originates from the analysis of surface water samples collected in July 2021 at the Schwartzwalder Mine, monitoring stations SW-AWD and SW-BPL. Review of the data indicates that the total and dissolved uranium concentrations at SW-AWD and SW-BPL were below 30 µg/L.

If you have any questions, please don't hesitate to contact me.

Sincerely,

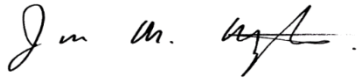
Jim Harrington, Managing Director
COLORADO LEGACY LAND
jim@ColoradoLegacy.Land

Distribution List:

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Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



Jim Harrington, Managing Director
COLORADO LEGACY LAND



July 2021 Schwartzwalder Monthly Surface Water Report

Contents:

Sample Location	Sample Date	Analysis	Sample ID	Temp (°C)	Field pH (S.U.)	Conductivity(μS/cm)	DO (mg/L)	ORP (mV)
SW-BPL	7/19/2021	Sample Suite 2	L67261-01	18.4	7.68	267.3	12.10	87.5
SW-AWD	7/19/2021	Sample Suite 2	L67261-02	19.1	7.88	285.4	8.20	70.6

August 18, 2021

Report to:

Christie Brizinski
Ensero Solutions
131 E. Lincoln Ave Ste. 200
Fort Collins, CO 80524

Bill to:

Pauline Wong
Ensero Solutions
131 E. Lincoln Ave Ste. 200
Fort Collins, CO 80524

cc: Ensero/Alexco Importer, Evan Valencia

Project ID: 3100-PO205

ACZ Project ID: L67261

Christie Brizinski:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on July 21, 2021. This project has been assigned to ACZ's project number, L67261. Please reference this number in all future inquiries.

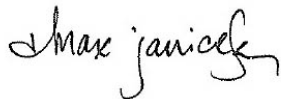
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L67261. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after September 17, 2021. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.



Max Janicek has reviewed and
approved this report.



Ensero Solutions

Project ID: 3100-PO205

Sample ID: SW-BPL

ACZ Sample ID: **L67261-01**

Date Sampled: 07/19/21 12:50

Date Received: 07/21/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, WAD	SM4500-CN I- distillation		-						07/30/21 12:26	md
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								07/26/21 13:13	emh
Total Hot Plate Digestion	M200.2 ICP-MS								08/03/21 8:40	mfm
Total Hot Plate Digestion	M200.2 ICP								08/01/21 16:35	kja
Total Recoverable Digestion	M200.2 ICP-MS								07/27/21 10:40	mfm
Total Recoverable Digestion	M200.2 ICP								07/28/21 14:19	jlw

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total recoverable	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	07/28/21 21:24	bsu
Arsenic, total	M200.8 ICP-MS	1	0.00060	B		mg/L	0.0002	0.001	08/04/21 16:58	mfm
Boron, total	M200.7 ICP	1	0.038	B		mg/L	0.03	0.1	08/02/21 11:32	kja
Chromium, total recoverable	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	07/29/21 11:08	kja
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	07/28/21 16:15	kja
Molybdenum, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.1	07/28/21 16:15	kja
Molybdenum, total	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.1	08/02/21 11:32	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	08/09/21 16:42	bsu
Thallium, total recoverable	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/28/21 21:24	bsu
Uranium, dissolved	M200.8 ICP-MS	1	0.0195			mg/L	0.0001	0.0005	08/03/21 12:26	mfm
Uranium, total	M200.8 ICP-MS	1	0.0221			mg/L	0.0001	0.0005	08/04/21 16:58	mfm
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	07/28/21 16:15	kja

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, WAD	SM4500-CN I,E- Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	08/02/21 17:01	md
Fluoride	SM4500F-C	1	0.29	B		mg/L	0.15	0.35	08/03/21 16:39	eep
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.142		*	mg/L	0.02	0.1	08/06/21 2:31	pjb
Phosphate, total	Calculation based on total Phosphorus		<0.03	U		mg/L	0.03	0.2	08/18/21 0:00	calc
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	07/31/21 1:50	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	204			mg/L	20	40	07/21/21 19:54	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1	5.0	B	*	mg/L	5	20	07/22/21 14:29	scd
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	15.3		*	mg/L	1	5	08/06/21 12:03	syw

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Project ID: 3100-PO205

Sample ID: SW-AWD

ACZ Sample ID: **L67261-02**

Date Sampled: 07/19/21 13:55

Date Received: 07/21/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, WAD	SM4500-CN I- distillation		-						07/30/21 12:35	md
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								07/26/21 13:23	emh
Total Hot Plate Digestion	M200.2 ICP-MS								08/03/21 8:40	mfm
Total Hot Plate Digestion	M200.2 ICP								08/01/21 16:49	kja
Total Recoverable Digestion	M200.2 ICP-MS								07/27/21 10:40	mfm
Total Recoverable Digestion	M200.2 ICP								07/28/21 14:33	jlw

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total recoverable	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	07/28/21 21:26	bsu
Arsenic, total	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	08/04/21 17:00	mfm
Boron, total	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	08/02/21 11:35	kja
Chromium, total recoverable	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	07/29/21 11:11	kja
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	07/28/21 16:18	kja
Molybdenum, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.1	07/28/21 16:18	kja
Molybdenum, total	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.1	08/02/21 11:35	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	08/09/21 16:44	bsu
Thallium, total recoverable	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/28/21 21:26	bsu
Uranium, dissolved	M200.8 ICP-MS	1	0.00109			mg/L	0.0001	0.0005	08/03/21 12:28	mfm
Uranium, total	M200.8 ICP-MS	1	0.00127			mg/L	0.0001	0.0005	08/04/21 17:00	mfm
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	07/28/21 16:18	kja

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, WAD	SM4500-CN I,E- Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	08/02/21 17:01	md
Fluoride	SM4500F-C	1	0.28	B	*	mg/L	0.15	0.35	08/06/21 16:35	eep
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	<0.02	U	*	mg/L	0.02	0.1	08/06/21 2:33	pjb
Phosphate, total	Calculation based on total Phosphorus		<0.03	U		mg/L	0.03	0.2	08/18/21 0:00	calc
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	07/31/21 1:51	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	234			mg/L	20	40	07/21/21 19:57	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1	7.0	B	*	mg/L	5	20	07/22/21 14:31	scd
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	12.2		*	mg/L	1	5	08/06/21 12:03	syw

Report Header Explanations

<i>Batch</i>	A distinct set of samples analyzed at a specific time
<i>Found</i>	Value of the QC Type of interest
<i>Limit</i>	Upper limit for RPD, in %.
<i>Lower</i>	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
<i>MDL</i>	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
<i>PCN/SCN</i>	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
<i>PQL</i>	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
<i>QC</i>	True Value of the Control Sample or the amount added to the Spike
<i>Rec</i>	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
<i>RPD</i>	Relative Percent Difference, calculation used for Duplicate QC Types
<i>Upper</i>	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
<i>Sample</i>	Value of the Sample of interest

QC Sample Types

<i>AS</i>	Analytical Spike (Post Digestion)	<i>LCSWD</i>	Laboratory Control Sample - Water Duplicate
<i>ASD</i>	Analytical Spike (Post Digestion) Duplicate	<i>LFB</i>	Laboratory Fortified Blank
<i>CCB</i>	Continuing Calibration Blank	<i>LFM</i>	Laboratory Fortified Matrix
<i>CCV</i>	Continuing Calibration Verification standard	<i>LFMD</i>	Laboratory Fortified Matrix Duplicate
<i>DUP</i>	Sample Duplicate	<i>LRB</i>	Laboratory Reagent Blank
<i>ICB</i>	Initial Calibration Blank	<i>MS</i>	Matrix Spike
<i>ICV</i>	Initial Calibration Verification standard	<i>MSD</i>	Matrix Spike Duplicate
<i>ICSAB</i>	Inter-element Correction Standard - A plus B solutions	<i>PBS</i>	Prep Blank - Soil
<i>LCSS</i>	Laboratory Control Sample - Soil	<i>PBW</i>	Prep Blank - Water
<i>LCSSD</i>	Laboratory Control Sample - Soil Duplicate	<i>PQV</i>	Practical Quantitation Verification standard
<i>LCSW</i>	Laboratory Control Sample - Water	<i>SDL</i>	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(4)	EPA SW-846. Test Methods for Evaluating Solid Waste.
(5)	Standard Methods for the Examination of Water and Wastewater.

Comments

(1)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2)	Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3)	Animal matrices for Inorganic analyses are reported on an "as received" basis.
(4)	An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
(5)	If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click:

<https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf>

Ensero Solutions

ACZ Project ID: **L67261**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Antimony, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524254													
WG524254ICV	ICV	07/28/21 21:16	MS210727-2	.0201		.01887	mg/L	94	90	110			
WG524254ICB	ICB	07/28/21 21:18				U	mg/L		-0.0012	0.0012			
WG524048LRB	LRB	07/28/21 21:20				U	mg/L		-0.00088	0.00088			
WG524048LFB	LFB	07/28/21 21:22	MS210702-2	.01		.01048	mg/L	105	85	115			
L67269-01LFM	LFM	07/28/21 21:29	MS210702-2	.01	U	.01065	mg/L	107	70	130			
L67269-01LFMD	LFMD	07/28/21 21:31	MS210702-2	.01	U	.01075	mg/L	108	70	130	1	20	
WG524254CCV1	CCV	07/28/21 21:35	MS210719-2	.0125		.01259	mg/L	101	90	110			
WG524254CCB1	CCB	07/28/21 21:37				U	mg/L		-0.0012	0.0012			

Arsenic, total

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524692													
WG524692ICV	ICV	08/04/21 16:29	MS210727-2	.05		.0491	mg/L	98	90	110			
WG524692ICB	ICB	08/04/21 16:30				.00044	mg/L		-0.0006	0.0006			
WG524524LRB	LRB	08/04/21 16:32				U	mg/L		-0.00044	0.00044			
WG524524LFB	LFB	08/04/21 16:34	MS210727-5	.05005		.04891	mg/L	98	85	115			
L67260-05LFM	LFM	08/04/21 16:46	MS210727-5	.05005	.00061	.04954	mg/L	98	70	130			
L67260-05LFMD	LFMD	08/04/21 16:48	MS210727-5	.05005	.00061	.04976	mg/L	98	70	130	0	20	
WG524692CCV1	CCV	08/04/21 16:52	MS210719-2	.1001		.09898	mg/L	99	90	110			
WG524692CCB1	CCB	08/04/21 16:54				U	mg/L		-0.0006	0.0006			
WG524692CCV2	CCV	08/04/21 17:15	MS210719-2	.1001		.10009	mg/L	100	90	110			
WG524692CCB2	CCB	08/04/21 17:17				U	mg/L		-0.0006	0.0006			
WG524692CCV3	CCV	08/04/21 17:31	MS210719-2	.1001		.09768	mg/L	98	90	110			
WG524692CCB3	CCB	08/04/21 17:33				U	mg/L		-0.0006	0.0006			

Boron, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524442													
WG524442ICV	ICV	08/02/21 10:34	II210801-1	2		1.967	mg/L	98	95	105			
WG524442ICB	ICB	08/02/21 10:40				U	mg/L		-0.09	0.09			
WG524442PQV	PQV	08/02/21 10:43	II210707-2	.1001		.095	mg/L	95	70	130			
WG524442SIC	SIC	08/02/21 10:46	II210707-5	.1001		.09	mg/L	90	80	120			
WG524421LRB	LRB	08/02/21 10:52				U	mg/L		-0.066	0.066			
WG524421LFB	LFB	08/02/21 10:55	II210714-2	.5005		.521	mg/L	104	85	115			
L67260-03LFM	LFM	08/02/21 11:07	II210714-2	.5005	.037	.562	mg/L	105	70	130			
L67260-03LFMD	LFMD	08/02/21 11:10	II210714-2	.5005	.037	.567	mg/L	106	70	130	1	20	
WG524442CCV1	CCV	08/02/21 11:22	II210719-1	1		.989	mg/L	99	90	110			
WG524442CCB1	CCB	08/02/21 11:25				U	mg/L		-0.09	0.09			
WG524442CCV2	CCV	08/02/21 11:59	II210719-1	1		.998	mg/L	100	90	110			
WG524442CCB2	CCB	08/02/21 12:02				U	mg/L		-0.09	0.09			
WG524442CCV3	CCV	08/02/21 12:23	II210719-1	1		.987	mg/L	99	90	110			
WG524442CCB3	CCB	08/02/21 12:26				U	mg/L		-0.09	0.09			

Ensero Solutions

ACZ Project ID: **L67261**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Chromium, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524283													
WG524283ICV	ICV	07/29/21 10:07	II210720-1	2		1.931	mg/L	97	95	105			
WG524283ICB	ICB	07/29/21 10:13				U	mg/L		-0.06	0.06			
WG524283PQV	PQV	07/29/21 10:16	II210707-2	.0502		.044	mg/L	88	70	130			
WG524283SIC	SIC	07/29/21 10:19	II210707-4	.1004		.092	mg/L	92	80	120			
WG524173LRB	LRB	07/29/21 10:25				U	mg/L		-0.044	0.044			
WG524173LFB	LFB	07/29/21 10:28	II210714-2	.502		.478	mg/L	95	85	115			
WG524283CCV1	CCV	07/29/21 10:56	II210720-2	1		.963	mg/L	96	90	110			
WG524283CCB1	CCB	07/29/21 10:59				U	mg/L		-0.06	0.06			
WG524283CCV2	CCV	07/29/21 11:33	II210720-2	1		.97	mg/L	97	90	110			
WG524283CCB2	CCB	07/29/21 11:36				U	mg/L		-0.06	0.06			
L67269-09LFM	LFM	07/29/21 11:48	II210714-2	.502	U	.546	mg/L	109	70	130			
L67269-09LFMD	LFMD	07/29/21 11:51	II210714-2	.502	U	.543	mg/L	108	70	130	1	20	
WG524283CCV3	CCV	07/29/21 11:57	II210720-2	1		.949	mg/L	95	90	110			
WG524283CCB3	CCB	07/29/21 12:00				U	mg/L		-0.06	0.06			

Copper, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524199													
WG524199ICV	ICV	07/28/21 15:11	II210720-1	2		1.963	mg/L	98	95	105			
WG524199ICB	ICB	07/28/21 15:17				U	mg/L		-0.03	0.03			
WG524199PQV	PQV	07/28/21 15:20	II210707-2	.0502		.043	mg/L	86	70	130			
WG524199SIC	SIC	07/28/21 15:23	II210707-4	.1004		.09	mg/L	90	80	120			
WG524199LFB	LFB	07/28/21 15:29	II210714-2	.5		.485	mg/L	97	85	115			
WG524199CCV1	CCV	07/28/21 16:00	II210720-2	1		.951	mg/L	95	90	110			
WG524199CCB1	CCB	07/28/21 16:03				U	mg/L		-0.03	0.03			
L67357-03AS	AS	07/28/21 16:31	II210714-2	.5	U	.491	mg/L	98	85	115			
L67357-03ASD	ASD	07/28/21 16:34	II210714-2	.5	U	.49	mg/L	98	85	115	0	20	
WG524199CCV2	CCV	07/28/21 16:37	II210720-2	1		.944	mg/L	94	90	110			
WG524199CCB2	CCB	07/28/21 16:40				U	mg/L		-0.03	0.03			
WG524199CCV3	CCV	07/28/21 16:58	II210720-2	1		.954	mg/L	95	90	110			
WG524199CCB3	CCB	07/28/21 17:01				U	mg/L		-0.03	0.03			

Cyanide, WAD

SM4500-CN I,E-Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524518													
WG524518ICV	ICV	08/02/21 16:56	WI210802-7	.3		.3036	mg/L	101	90	110			
WG524518ICB	ICB	08/02/21 16:57				U	mg/L		-0.003	0.003			
WG524345LRB	LRB	08/02/21 16:58				U	mg/L		-0.003	0.003			
WG524345LFB	LFB	08/02/21 16:59	WI210717-5	.2		.1916	mg/L	96	90	110			
WG524518CCV1	CCV	08/02/21 17:06	WI210802-6	.25		.2512	mg/L	100	90	110			
WG524518CCB1	CCB	08/02/21 17:07				U	mg/L		-0.003	0.003			
L67324-13DUP	DUP	08/02/21 17:09			U	U	mg/L				0	20	RA
L67325-02LFM	LFM	08/02/21 17:11	WI210717-5	.2	U	.1894	mg/L	95	90	110			
WG524518CCV2	CCV	08/02/21 17:17	WI210802-6	.25		.2514	mg/L	101	90	110			
WG524518CCB2	CCB	08/02/21 17:17				U	mg/L		-0.003	0.003			

Ensero Solutions

ACZ Project ID: **L67261**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Fluoride

SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524567													
WG524567ICV1	ICV	08/03/21 13:33	WC210803-1	2.002		2	mg/L	100	90	110			
WG524567ICB	ICB	08/03/21 13:39				U	mg/L		-0.3	0.3			
WG524567PQV	PQV	08/03/21 13:42	WC210803-3	.3514		.37	mg/L	105	70	130			
WG524567LFB1	LFB	08/03/21 13:45	WC210803-9	5.02		4.91	mg/L	98	90	110			
WG524567CCV1	CCV	08/03/21 14:49	WC210803-1	2.002		2.08	mg/L	104	90	110			
WG524567CCB1	CCB	08/03/21 14:56				U	mg/L		-0.3	0.3			
WG524567CCV2	CCV	08/03/21 16:09	WC210803-1	2.002		2.1	mg/L	105	90	110			
WG524567CCB2	CCB	08/03/21 16:17				U	mg/L		-0.3	0.3			
L67260-06AS	AS	08/03/21 16:29	WC210803-9	5.02	.32	5.19	mg/L	97	90	110			
L67260-06ASD	ASD	08/03/21 16:32	WC210803-9	5.02	.32	5.28	mg/L	99	90	110	2	20	
WG524567LFB2	LFB	08/03/21 16:42	WC210803-9	5.02		5.05	mg/L	101	90	110			
WG524567CCV3	CCV	08/03/21 17:17	WC210803-1	2.002		2.19	mg/L	109	90	110			
WG524567CCB3	CCB	08/03/21 17:22				U	mg/L		-0.3	0.3			
WG524567CCV4	CCV	08/03/21 18:34	WC210803-1	2.002		2.06	mg/L	103	90	110			
WG524567CCB4	CCB	08/03/21 18:42				U	mg/L		-0.3	0.3			
WG524567CCV5	CCV	08/03/21 20:15	WC210803-1	2.002		2.05	mg/L	102	90	110			
WG524567CCB5	CCB	08/03/21 20:23				U	mg/L		-0.3	0.3			
WG524814													
WG524814ICV	ICV	08/06/21 12:24	WC210803-1	2.002		2.12	mg/L	106	90	110			
WG524814ICB	ICB	08/06/21 12:29				U	mg/L		-0.3	0.3			
WG524816													
WG524816ICV	ICV	08/06/21 14:44	WC210803-1	2.002		2.06	mg/L	103	90	110			
WG524816ICB	ICB	08/06/21 14:52				U	mg/L		-0.3	0.3			
WG524816PQV	PQV	08/06/21 14:56	WC210803-3	.3514		.37	mg/L	105	70	130			
WG524816LFB1	LFB	08/06/21 14:59	WC210803-9	5.02		5.17	mg/L	103	90	110			
WG524816CCV1	CCV	08/06/21 15:54	WC210803-1	2.002		2.04	mg/L	102	90	110			
WG524816CCB1	CCB	08/06/21 16:02				U	mg/L		-0.3	0.3			
L67374-02AS	AS	08/06/21 16:52	WC210803-9	5.02	.57	4.8	mg/L	84	90	110			M2
L67374-02ASD	ASD	08/06/21 16:56	WC210803-9	5.02	.57	4.8	mg/L	84	90	110	0	20	M2
WG524816CCV2	CCV	08/06/21 17:07	WC210803-1	2.002		2.12	mg/L	106	90	110			
WG524816CCB2	CCB	08/06/21 17:15				U	mg/L		-0.3	0.3			
WG524816LFB2	LFB	08/06/21 17:49	WC210803-9	5.02		5.33	mg/L	106	90	110			
WG524816CCV3	CCV	08/06/21 18:20	WC210803-1	2.002		2.07	mg/L	103	90	110			
WG524816CCB3	CCB	08/06/21 18:28				U	mg/L		-0.3	0.3			
WG524816CCV4	CCV	08/06/21 19:55	WC210803-1	2.002		2.11	mg/L	105	90	110			
WG524816CCB4	CCB	08/06/21 20:03				U	mg/L		-0.3	0.3			
WG524816CCV5	CCV	08/06/21 21:21	WC210803-1	2.002		2.1	mg/L	105	90	110			
WG524816CCB5	CCB	08/06/21 21:29				U	mg/L		-0.3	0.3			

Ensero Solutions

ACZ Project ID: **L67261**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Molybdenum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524199													
WG524199ICV	ICV	07/28/21 15:11	II210720-1	2		2.01	mg/L	101	95	105			
WG524199ICB	ICB	07/28/21 15:17				U	mg/L		-0.06	0.06			
WG524199PQV	PQV	07/28/21 15:20	II210707-2	.1002		.091	mg/L	91	70	130			
WG524199SIC	SIC	07/28/21 15:23	II210707-4	.1002		.086	mg/L	86	80	120			
WG524199LFB	LFB	07/28/21 15:29	II210714-2	.501		.495	mg/L	99	85	115			
WG524199CCV1	CCV	07/28/21 16:00	II210720-2	1		.988	mg/L	99	90	110			
WG524199CCB1	CCB	07/28/21 16:03				U	mg/L		-0.06	0.06			
L67357-03AS	AS	07/28/21 16:31	II210714-2	.501	U	.487	mg/L	97	85	115			
L67357-03ASD	ASD	07/28/21 16:34	II210714-2	.501	U	.486	mg/L	97	85	115	0	20	
WG524199CCV2	CCV	07/28/21 16:37	II210720-2	1		.965	mg/L	97	90	110			
WG524199CCB2	CCB	07/28/21 16:40				U	mg/L		-0.06	0.06			
WG524199CCV3	CCV	07/28/21 16:58	II210720-2	1		.984	mg/L	98	90	110			
WG524199CCB3	CCB	07/28/21 17:01				U	mg/L		-0.06	0.06			

Molybdenum, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524442													
WG524442ICV	ICV	08/02/21 10:34	II210801-1	2		1.964	mg/L	98	95	105			
WG524442ICB	ICB	08/02/21 10:40				U	mg/L		-0.06	0.06			
WG524442PQV	PQV	08/02/21 10:43	II210707-2	.1002		.095	mg/L	95	70	130			
WG524442SIC	SIC	08/02/21 10:46	II210707-5	.1002		.088	mg/L	88	80	120			
WG524421LRB	LRB	08/02/21 10:52				U	mg/L		-0.044	0.044			
WG524421LFB	LFB	08/02/21 10:55	II210714-2	.501		.513	mg/L	102	85	115			
L67260-03LFM	LFM	08/02/21 11:07	II210714-2	.501	U	.515	mg/L	103	70	130			
L67260-03LFMD	LFMD	08/02/21 11:10	II210714-2	.501	U	.518	mg/L	103	70	130	1	20	
WG524442CCV1	CCV	08/02/21 11:22	II210719-1	1		.998	mg/L	100	90	110			
WG524442CCB1	CCB	08/02/21 11:25				U	mg/L		-0.06	0.06			
WG524442CCV2	CCV	08/02/21 11:59	II210719-1	1		1.004	mg/L	100	90	110			
WG524442CCB2	CCB	08/02/21 12:02				U	mg/L		-0.06	0.06			
WG524442CCV3	CCV	08/02/21 12:23	II210719-1	1		.993	mg/L	99	90	110			
WG524442CCB3	CCB	08/02/21 12:26				U	mg/L		-0.06	0.06			

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ACZ Project ID: **L67261**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Nitrate/Nitrite as N

M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524782													
WG524782ICV	ICV	08/05/21 23:58	WI210603-7	2.416		2.314	mg/L	96	90	110			
WG524782ICB	ICB	08/06/21 0:00				U	mg/L		-0.02	0.02			
WG524787													
WG524787CCV1	CCV	08/06/21 2:08	WI210804-1	2		2.028	mg/L	101	90	110			
WG524787CCB1	CCB	08/06/21 2:12				U	mg/L		-0.02	0.02			
WG524787LFB	LFB	08/06/21 2:13	WI210331-13	2		1.993	mg/L	100	90	110			
L65076-18AS	AS	08/06/21 2:15	WI210331-13	2	U	2.016	mg/L	101	90	110			
L67260-01DUP	DUP	08/06/21 2:18			.03	.037	mg/L				21	20	RA
WG524787CCV2	CCV	08/06/21 2:26	WI210804-1	2		2.008	mg/L	100	90	110			
WG524787CCB2	CCB	08/06/21 2:29				U	mg/L		-0.02	0.02			
WG524787CCV3	CCV	08/06/21 2:43	WI210804-1	2		2.001	mg/L	100	90	110			
WG524787CCB3	CCB	08/06/21 2:46				U	mg/L		-0.02	0.02			
WG524787CCV4	CCV	08/06/21 2:55	WI210804-1	2		2.017	mg/L	101	90	110			
WG524787CCB4	CCB	08/06/21 2:58				U	mg/L		-0.02	0.02			

Phosphorus, total

M365.1 - Auto Ascorbic Acid (digest)

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524401													
WG524401ICV	ICV	07/31/21 0:40	WI210603-3	.65228		.649	mg/L	99	90	110			
WG524401ICB	ICB	07/31/21 0:42				U	mg/L		-0.01	0.01			
WG524404													
WG524404CCV1	CCV	07/31/21 1:08	WI210603-4	.5		.5	mg/L	100	90	110			
WG524404CCB1	CCB	07/31/21 1:09				U	mg/L		-0.01	0.01			
WG523973LRB	LRB	07/31/21 1:10				U	mg/L		-0.01	0.01			
WG523973LFB	LFB	07/31/21 1:11	WI210716-2	.5		.465	mg/L	93	90	110			
L67260-01LFM	LFM	07/31/21 1:14	WI210716-2	.5	.012	.469	mg/L	91	90	110			
L67260-02DUP	DUP	07/31/21 1:16			.013	.011	mg/L				17	20	RA
WG524404CCV2	CCV	07/31/21 1:22	WI210603-4	.5		.499	mg/L	100	90	110			
WG524404CCB2	CCB	07/31/21 1:23				U	mg/L		-0.01	0.01			
WG524404CCV4	CCV	07/31/21 1:47	WI210603-4	.5		.481	mg/L	96	90	110			
WG524404CCB4	CCB	07/31/21 1:48				U	mg/L		-0.01	0.01			
WG524404CCV5	CCV	07/31/21 2:01	WI210603-4	.5		.495	mg/L	99	90	110			
WG524404CCB5	CCB	07/31/21 2:02				U	mg/L		-0.01	0.01			

Residue, Filterable (TDS) @180C

SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG523776													
WG523776PBW	PBW	07/21/21 19:10				U	mg/L		-20	20			
WG523776LCSW	LCSW	07/21/21 19:12	PCN63563	1000		996	mg/L	100	80	120			
L67266-04DUP	DUP	07/21/21 20:10			536	534	mg/L				0	10	

Residue, Non-Filterable (TSS) @105C

SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG523843													
WG523843PBW	PBW	07/22/21 14:00				U	mg/L		-5	5			
WG523843LCSW	LCSW	07/22/21 14:01	PCN63561	100		104	mg/L	104	80	120			
L67292-03DUP	DUP	07/22/21 14:44			9	11	mg/L				20	10	RA

Ensero Solutions

ACZ Project ID: **L67261**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Silver, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524921													
WG524921ICV	ICV	08/09/21 16:13	MS210727-2	.02		.01961	mg/L	98	90	110			
WG524921ICB	ICB	08/09/21 16:15				U	mg/L		-0.00022	0.00022			
WG524921LFB	LFB	08/09/21 16:17	MS210727-5	.01002		.01015	mg/L	101	85	115			
L67236-01AS	AS	08/09/21 16:20	MS210727-5	.501	U	.439	mg/L	88	70	130			
L67236-01ASD	ASD	08/09/21 16:22	MS210727-5	.501	U	.46326	mg/L	92	70	130	5	20	
WG524921CCV1	CCV	08/09/21 16:31	MS210806-2	.02505		.02498	mg/L	100	90	110			
WG524921CCB1	CCB	08/09/21 16:33				U	mg/L		-0.0003	0.0003			
L67261-02AS	AS	08/09/21 16:46	MS210727-5	.01002	U	.01016	mg/L	101	70	130			
L67261-02ASD	ASD	08/09/21 16:48	MS210727-5	.01002	U	.01017	mg/L	101	70	130	0	20	
WG524921CCV2	CCV	08/09/21 16:53	MS210806-2	.02505		.02477	mg/L	99	90	110			
WG524921CCB2	CCB	08/09/21 16:55				U	mg/L		-0.0003	0.0003			

Sulfate

D516-02/-07/-11 - TURBIDIMETRIC

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524726													
WG524726ICB	ICB	08/06/21 11:13				U	mg/L		-3	3			
WG524726ICV	ICV	08/06/21 11:13	WI210802-8	20.46		19.6	mg/L	96	90	110			
WG524726CCV1	CCV	08/06/21 12:00	WI210802-9	25		25.2	mg/L	101	90	110			
WG524726CCB1	CCB	08/06/21 12:00				U	mg/L		-3	3			
WG524726LFB	LFB	08/06/21 12:00	WI210105-3	10		9.9	mg/L	99	90	110			
L67260-01AS	AS	08/06/21 12:01	WI210105-3	10	22.9	31.3	mg/L	84	90	110			M2
WG524726CCV2	CCV	08/06/21 12:03	WI210802-9	25		24.8	mg/L	99	90	110			
WG524726CCB2	CCB	08/06/21 12:03				U	mg/L		-3	3			
WG524726CCV3	CCV	08/06/21 12:04	WI210802-9	25		24.8	mg/L	99	90	110			
WG524726CCB3	CCB	08/06/21 12:04				U	mg/L		-3	3			
WG524726CCV4	CCV	08/06/21 12:06	WI210802-9	25		24.6	mg/L	98	90	110			
WG524726CCB4	CCB	08/06/21 12:06				U	mg/L		-3	3			
WG524726CCV5	CCV	08/06/21 12:08	WI210802-9	25		24.8	mg/L	99	90	110			
WG524726CCB5	CCB	08/06/21 12:08				U	mg/L		-3	3			
WG524726CCV6	CCV	08/06/21 12:10	WI210802-9	25		24.7	mg/L	99	90	110			
WG524726CCB6	CCB	08/06/21 12:10				U	mg/L		-3	3			
WG524726CCV7	CCV	08/06/21 12:13	WI210802-9	25		24.8	mg/L	99	90	110			
WG524726CCB7	CCB	08/06/21 12:13				U	mg/L		-3	3			
WG524726CCV8	CCV	08/06/21 12:31	WI210802-9	25		25.1	mg/L	100	90	110			
WG524726CCB8	CCB	08/06/21 12:31				U	mg/L		-3	3			
WG524726CCV9	CCV	08/06/21 12:33	WI210802-9	25		24.5	mg/L	98	90	110			
WG524726CCB9	CCB	08/06/21 12:33				U	mg/L		-3	3			
WG524726CCV10	CCV	08/06/21 12:44	WI210802-9	25		24.9	mg/L	100	90	110			
WG524726CCB10	CCB	08/06/21 12:44				U	mg/L		-3	3			
L67236-01DUP	DUP	08/06/21 12:45			534	538.9	mg/L				1	20	
WG524726CCV11	CCV	08/06/21 12:46	WI210802-9	25		24.6	mg/L	98	90	110			
WG524726CCB11	CCB	08/06/21 12:46				U	mg/L		-3	3			

Ensero Solutions

ACZ Project ID: **L67261**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Thallium, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524254													
WG524254ICV	ICV	07/28/21 21:16	MS210727-2	.05		.05211	mg/L	104	90	110			
WG524254ICB	ICB	07/28/21 21:18				U	mg/L		-0.0003	0.0003			
WG524048LRB	LRB	07/28/21 21:20				U	mg/L		-0.00022	0.00022			
WG524048LFB	LFB	07/28/21 21:22	MS210702-2	.05		.04806	mg/L	96	85	115			
L67269-01LFM	LFM	07/28/21 21:29	MS210702-2	.05	U	.04995	mg/L	100	70	130			
L67269-01LFMD	LFMD	07/28/21 21:31	MS210702-2	.05	U	.05028	mg/L	101	70	130	1	20	
WG524254CCV1	CCV	07/28/21 21:35	MS210719-2	.1		.10241	mg/L	102	90	110			
WG524254CCB1	CCB	07/28/21 21:37				U	mg/L		-0.0003	0.0003			
WG524254CCV2	CCV	07/28/21 21:57	MS210719-2	.1		.10316	mg/L	103	90	110			
WG524254CCB2	CCB	07/28/21 21:59				U	mg/L		-0.0003	0.0003			
WG524254CCV3	CCV	07/28/21 22:20	MS210719-2	.1		.10218	mg/L	102	90	110			
WG524254CCB3	CCB	07/28/21 22:21				U	mg/L		-0.0003	0.0003			
WG524254CCV4	CCV	07/28/21 22:34	MS210719-2	.1		.1016	mg/L	102	90	110			
WG524254CCB4	CCB	07/28/21 22:36				U	mg/L		-0.0003	0.0003			

Uranium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524554													
WG524554ICV	ICV	08/03/21 11:46	MS210727-2	.05		.05054	mg/L	101	90	110			
WG524554ICB	ICB	08/03/21 11:48				U	mg/L		-0.00022	0.00022			
WG524554LFB	LFB	08/03/21 11:50	MS210727-5	.05		.04457	mg/L	89	85	115			
WG524554CCV1	CCV	08/03/21 12:08	MS210719-2	.1		.09358	mg/L	94	90	110			
WG524554CCB1	CCB	08/03/21 12:10				U	mg/L		-0.0003	0.0003			
L67339-01AS	AS	08/03/21 12:37	MS210727-5	.05	.00024	.04599	mg/L	92	70	130			
WG524554CCV2	CCV	08/03/21 12:39	MS210719-2	.1		.08973	mg/L	90	90	110			
WG524554CCB2	CCB	08/03/21 12:41				U	mg/L		-0.0003	0.0003			
L67339-01ASD	ASD	08/03/21 12:42	MS210727-5	.05	.00024	.04327	mg/L	86	70	130	6	20	
WG524554CCV3	CCV	08/03/21 12:52	MS210719-2	.1		.09077	mg/L	91	90	110			
WG524554CCB3	CCB	08/03/21 12:53				U	mg/L		-0.0003	0.0003			

Uranium, total

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524692													
WG524692ICV	ICV	08/04/21 16:29	MS210727-2	.05		.04953	mg/L	99	90	110			
WG524692ICB	ICB	08/04/21 16:30				U	mg/L		-0.0003	0.0003			
WG524524LRB	LRB	08/04/21 16:32				U	mg/L		-0.00022	0.00022			
WG524524LFB	LFB	08/04/21 16:34	MS210727-5	.05		.04871	mg/L	97	85	115			
L67260-05LFM	LFM	08/04/21 16:46	MS210727-5	.05	.0219	.07681	mg/L	110	70	130			
L67260-05LFMD	LFMD	08/04/21 16:48	MS210727-5	.05	.0219	.07746	mg/L	111	70	130	1	20	
WG524692CCV1	CCV	08/04/21 16:52	MS210719-2	.1		.10317	mg/L	103	90	110			
WG524692CCB1	CCB	08/04/21 16:54				U	mg/L		-0.0003	0.0003			
WG524692CCV2	CCV	08/04/21 17:15	MS210719-2	.1		.1026	mg/L	103	90	110			
WG524692CCB2	CCB	08/04/21 17:17				U	mg/L		-0.0003	0.0003			
WG524692CCV3	CCV	08/04/21 17:31	MS210719-2	.1		.09998	mg/L	100	90	110			
WG524692CCB3	CCB	08/04/21 17:33				U	mg/L		-0.0003	0.0003			

Ensero SolutionsACZ Project ID: **L67261**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524199													
WG524199ICV	ICV	07/28/21 15:11	II210720-1	2		1.989	mg/L	99	95	105			
WG524199ICB	ICB	07/28/21 15:17				U	mg/L		-0.06	0.06			
WG524199PQV	PQV	07/28/21 15:20	II210707-2	.05015		.042	mg/L	84	70	130			
WG524199SIC	SIC	07/28/21 15:23	II210707-4	.1003		.1	mg/L	100	80	120			
WG524199LFB	LFB	07/28/21 15:29	II210714-2	.50045		.51	mg/L	102	85	115			
WG524199CCV1	CCV	07/28/21 16:00	II210720-2	1		.964	mg/L	96	90	110			
WG524199CCB1	CCB	07/28/21 16:03				U	mg/L		-0.06	0.06			
L67357-03AS	AS	07/28/21 16:31	II210714-2	.50045	.169	.664	mg/L	100	85	115			
L67357-03ASD	ASD	07/28/21 16:34	II210714-2	.50045	.169	.667	mg/L	101	85	115	0	20	
WG524199CCV2	CCV	07/28/21 16:37	II210720-2	1		.94	mg/L	94	90	110			
WG524199CCB2	CCB	07/28/21 16:40				U	mg/L		-0.06	0.06			
WG524199CCV3	CCV	07/28/21 16:58	II210720-2	1		.948	mg/L	95	90	110			
WG524199CCB3	CCB	07/28/21 17:01				U	mg/L		-0.06	0.06			

Ensero Solutions

ACZ Project ID: **L67261**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L67261-01	WG524518	Cyanide, WAD	SM4500-CN I,E-Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG524787	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG524404	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG523843	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG524726	Sulfate	SM2540D D516-02/-07/-11 - TURBIDIMETRIC	Z3 M2	Sample volume yielded a residue less than 2.5 mg Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
L67261-02	WG524518	Cyanide, WAD	SM4500-CN I,E-Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG524816	Fluoride	SM4500F-C	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG524787	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG524404	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG523843	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG524726	Sulfate	SM2540D D516-02/-07/-11 - TURBIDIMETRIC	Z3 M2	Sample volume yielded a residue less than 2.5 mg Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.

Ensero Solutions

Project ID: 3100-PO205

Sample ID: SW-BPL

Locator:

ACZ Sample ID: **L67261-01**

Date Sampled: 07/19/21 12:50

Date Received: 07/21/21

Sample Matrix: *Surface Water*

Combined Radium (total)

Prep Method:

Calculation (RA226 + RA228)

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Combined Radium (total)	08/18/21 11:05		0.08			pCi/L		calc

Gross Alpha & Beta, total

Prep Method:

M900.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha	08/04/21 0:24		14	3.9	6.3	pCi/L	*	ess
Gross Beta	08/04/21 0:24		8.6	3.1	8.2	pCi/L	*	ess

Radium 226, total

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, total	08/10/21 0:23		0.08	0.08	0.08	pCi/L	*	djc

Radium 228, total

Prep Method:

M904.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, total	08/17/21 13:31		0.62	0.65	1.5	pCi/L	*	cer

Ensero Solutions

Project ID: 3100-PO205

Sample ID: SW-AWD

Locator:

ACZ Sample ID: **L67261-02**

Date Sampled: 07/19/21 13:55

Date Received: 07/21/21

Sample Matrix: *Surface Water*

Combined Radium (total)

Prep Method:

Calculation (RA226 + RA228)

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Combined Radium (total)	08/18/21 11:05		0.24			pCi/L		calc

Gross Alpha & Beta, total

Prep Method:

M900.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha	08/04/21 0:25		2.5	2	17	pCi/L	*	ess
Gross Beta	08/04/21 0:25		4.5	2.9	18	pCi/L	*	ess

Radium 226, total

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, total	08/10/21 0:25		0.24	0.11	0.13	pCi/L	*	djc

Radium 228, total

Prep Method:

M904.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, total	08/17/21 13:31		0.17	0.73	1.7	pCi/L	*	cer

Report Header Explanations

<i>Batch</i>	A distinct set of samples analyzed at a specific time
<i>Error(+/-)</i>	Calculated sample specific uncertainty
<i>Found</i>	Value of the QC Type of interest
<i>Limit</i>	Upper limit for RPD, in %.
<i>LCL</i>	Lower Control Limit, in % (except for LCSS, mg/Kg)
<i>LLD</i>	Calculated sample specific Lower Limit of Detection
<i>PCN/SCN</i>	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
<i>PQL</i>	Practical Quantitation Limit
<i>QC</i>	True Value of the Control Sample or the amount added to the Spike
<i>Rec</i>	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
<i>RER</i>	Relative Error Ratio, calculation used for Dup. QC taking into account the error factor.
<i>RPD</i>	Relative Percent Difference, calculation used for Duplicate QC Types
<i>UCL</i>	Upper Control Limit, in % (except for LCSS, mg/Kg)
<i>Sample</i>	Value of the Sample of interest

QC Sample Types

<i>DUP</i>	Sample Duplicate	<i>MS/MSD</i>	Matrix Spike/Matrix Spike Duplicate
<i>LCSS</i>	Laboratory Control Sample - Soil	<i>PBS</i>	Prep Blank - Soil
<i>LCSW</i>	Laboratory Control Sample - Water	<i>PBW</i>	Prep Blank - Water

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Matrix Spikes	Determines sample matrix interferences, if any.

ACZ Qualifiers (Qual)

H	Analysis exceeded method hold time.
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Method Prefix Reference

M	EPA methodology, including those under SDWA, CWA, and RCRA
SM	Standard Methods for the Examination of Water and Wastewater.
D	ASTM
RP	DOE
ESM	DOE/ESM

Comments

- (1) Solid matrices are reported on a dry weight basis.
- (2) Preparation method: "Method" indicates preparation defined in analytical method.
- (3) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.

For a complete list of ACZ's Extended Qualifiers, please click:

<https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf>

Ensero Solutions

ACZ Project ID: **L67261**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Alpha		M900.0										Units: pCi/L				
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG524240																
WG524240PBW	PBW	08/04/21						2.2	1.5	12			24			
WG524240LCSWA	LCSW	08/04/21	PCN62436	100				120	9.1	6	120	67	144			
L67041-06DUP	DUP-RPD	08/04/21			0.44	1.2	6.1	3.3	2	5.5				153	20	RG
L67041-06DUP	DUP-RER	08/04/21			0.44	1.2	6.1	3.3	2	5.5				1.23	2	
L67260-01MSA	MS	08/04/21	PCN62436	100	16	4.2	16	120	11	17	104	67	144			
L67355-05DUP	DUP-RPD	08/04/21			170	15	8.6	230	17	8.1				30	20	RM

Beta		M900.0										Units: pCi/L				
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG524240																
WG524240PBW	PBW	08/04/21						1.1	2.3	18			36			
WG524240LCSWB	LCSW	08/04/21	RC210621-11	49.9				56	4.9	5.1	112	82	122			
L67041-06DUP	DUP-RPD	08/04/21			2	2.5	6.6	2.7	2.8	8.1				30	20	RG
L67041-06DUP	DUP-RER	08/04/21			2	2.5	6.6	2.7	2.8	8.1				0.19	2	
L67355-03MSB	MS	08/04/21	RC210621-11	49.9	260	10	9.4	300	11	12	80	82	122			M2
L67355-05DUP	DUP-RPD	08/04/21			71	5.6	6.8	78	5.9	8.5				9	20	

Radium 226, total		M903.1										Units: pCi/L				
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG524570																
WG524570PBW	PBW	08/10/21						.13	0.14	0.14			0.28			
WG524570LCSW	LCSW	08/10/21	PCN62879	20				19	0.64	0.13	95	43	148			
L67261-01DUP1	DUP-RER	08/10/21			0.08	0.08	0.08	.03	0.18	0.22				0.25	2	
L67261-01DUP1	DUP-RPD	08/10/21			0.08	0.08	0.08	.03	0.18	0.22				91	20	RG
L67410-01MS	MS	08/10/21	PCN62879	40	0.64	0.21	0.63	34	1.1	0.44	83	43	148			
L67415-01DUP2	DUP-RPD	08/10/21			1.4	0.18	0.1	1.5	0.26	0.15				7	20	

Ensero Solutions

ACZ Project ID: **L67261**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Radium 228, total

M904.0

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG524988																
WG524988LCSW	LCSW	08/16/21	PCN63356	9.55				8.2	1	1.8	86	47	123			
WG524988PBW	PBW	08/16/21						.04	0.7	1.8			3.6			
L67260-03DUP	DUP-RPD	08/16/21			0.2	0.72	1.8	.95	0.7	1.7				130	20	RG
L67260-03DUP	DUP-RER	08/16/21			0.2	0.72	1.8	.95	0.7	1.7				0.75	2	
L67442-02MS	MS	08/17/21	PCN63356	19.09	0.66	0.93	2.1	17	2.5	4.3	86	47	123			
L67442-03DUP	DUP-RPD	08/17/21			-0.28	0.94	2.1	.51	1.3	3.3				687	20	RG
L67442-03DUP	DUP-RER	08/17/21			-0.28	0.94	2.1	.51	1.3	3.3				0.49	2	

Ensero Solutions

ACZ Project ID: **L67261**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L67261-01	WG524240	Gross Alpha	M900.0	RM	For a water matrix, the duplicate precision assessment (RPD or RER) exceeded the control limit. High sediment, turbidity, or presence of an immiscible liquid attributed to non-homogeneity of the sample.
		Gross Beta	M900.0	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG524570	Radium 226, total	M903.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG524988	Radium 228, total	M904.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
L67261-02	WG524240	Gross Alpha	M900.0	RM	For a water matrix, the duplicate precision assessment (RPD or RER) exceeded the control limit. High sediment, turbidity, or presence of an immiscible liquid attributed to non-homogeneity of the sample.
		Gross Beta	M900.0	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG524570	Radium 226, total	M903.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG524988	Radium 228, total	M904.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.

Ensero Solutions

ACZ Project ID: **L67261**

No certification qualifiers associated with this analysis

Ensero Solutions
3100-PO205

ACZ Project ID: L67261
Date Received: 07/21/2021 11:26
Received By:
Date Printed: 7/22/2021

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?	☐	☐	☒
2) Is the Chain of Custody form or other directive shipping papers present?	☒	☐	☐
3) Does this project require special handling procedures such as CLP protocol?	☐	☒	☐
4) Are any samples NRC licensable material?	☐	☐	☒
5) If samples are received past hold time, proceed with requested short hold time analyses?	☒	☐	☐
6) Is the Chain of Custody form complete and accurate?	☒	☐	☐
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?	☐	☒	☐

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	☒	☐	☐
9) Are all labels on containers and are they intact and legible?	☒	☐	☐
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	☒	☐	☐
11) For preserved bottle types, was the pH checked and within limits? ¹	☒	☐	☐
12) Is there sufficient sample volume to perform all requested work?	☒	☐	☐
13) Is the custody seal intact on all containers?	☐	☐	☒
14) Are samples that require zero headspace acceptable?	☐	☐	☒
15) Are all sample containers appropriate for analytical requirements?	☒	☐	☐
16) Is there an Hg-1631 trip blank present?	☐	☐	☒
17) Is there a VOA trip blank present?	☐	☐	☒
18) Were all samples received within hold time?	☒	☐	☐

NA indicates Not Applicable

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
-----	-----	-----	-----	-----
6881	5.4	<=6.0	15	N/A

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

Ensero Solutions
3100-PO205

ACZ Project ID: L67261

Date Received: 07/21/2021 11:26

Received By:

Date Printed: 7/22/2021

¹ The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na₂S₂O₃ preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).



Laboratories, Inc. 267261

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

CHAIN of CUSTODY

Report to:

Name: Christie Brizinski
Company: Ensero Solutions
E-mail: cbrizinski@ensero.com

Address: 131 E. Lincoln Ave Ste. 200
Fort Collins, CO 80524
Telephone: 867-668-6463, ext 229

Copy of Report to:

Name: Evan Valencia
Company: Ensero Solutions

E-mail: evalencia@ensero.com
Telephone: 818-688-1839

Invoice to:

Name: Pauline Wong
Company: Ensero Solutions
E-mail: ap@ensero.com

Address: 131 E. Lincoln Ave Ste. 200
Fort Collins, CO 80524
Telephone: 778-404-1182

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses?

YES ☒
NO ☐

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified

Are samples for SDWA Compliance Monitoring?

Yes ☐

No ☒

If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: EV

Sampler's Site Information

State CO

Zip code 80401

Time Zone MTN

*Sampler's Signature: *in Valh*

*I attest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/location or tampering with the sample in anyway, is considered fraud and punishable by State Law.

PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

Quote #: Ensero-2020

PO#: 3100-PO205

Reporting state for compliance testing: CO

Check box if samples include NRC licensed material? ☐

SAMPLE IDENTIFICATION

DATE:TIME

Matrix

			# of Containers	TSS	Sample suite #1	Sample suite #2	COD	LLHG trip blank	Sample suite #3	TDS	
SW-BPL	7-19-2021: 12:50	SW	8	☐	☐	☒	☐	☐	☐	☐	☐
SW-AWD	7-19-2021: 13:55	SW	8	☐	☐	☒	☐	☐	☐	☐	☐
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